

## ABSTRACT OF THE DISCLOSURE

A carbon nano material is mixed with a metal material in a powder state. A resultant mixed material is compressed by a hot press and molded to granules. The metal in the granules are melted, blended and thus obtained composite material is injected into and fill a mold to form a composite metal product comprising the carbon nano material and the metal material. With the above process, it is possible to injection mold said granules to obtain the composite metal product to which the characteristics of the carbon nano material are applied.